

	1	2	3	4	5
Exp	41.2	41.2	41.2	41.2	41.2
Obs	43	29	52	34	48

$n = 206$ * uniform : $206 \div 5 = 41.2$

H_0 : the obs. freq. distr. of products selling @ 5 locations is uniform.

H_a: " " " " " " " "
is not uniform

$$\chi^2 = \sum \frac{(\text{obs} - \text{exp})^2}{\text{exp}} = \frac{(43 - 41.2)^2}{41.2} + \frac{(29 - 41.2)^2}{41.2} + \dots = 8.903$$

$$P(\chi^2 > 8.903 | df = 4) = 0.06357$$

③

	BP	G	Ed	Home
obs	102	32	12	4
exp	103.5	31.5	10.5	4.5

H_0 : the obs. freq. distr. of laptop users fits the exp. distr.

H_a : " " " " " " " doesn't fit " " "

$$\chi^2 = \sum \frac{(\text{obs} - \text{exp})^2}{\text{exp}} = \frac{(102 - 103.5)^2}{103.5} + \frac{(32 - 31.5)^2}{31.5} + \dots = 0.2995$$

$$P(\chi^2 > 0.2995 | df = 3) = 0.96$$

- fail to reject

- recopy H_0